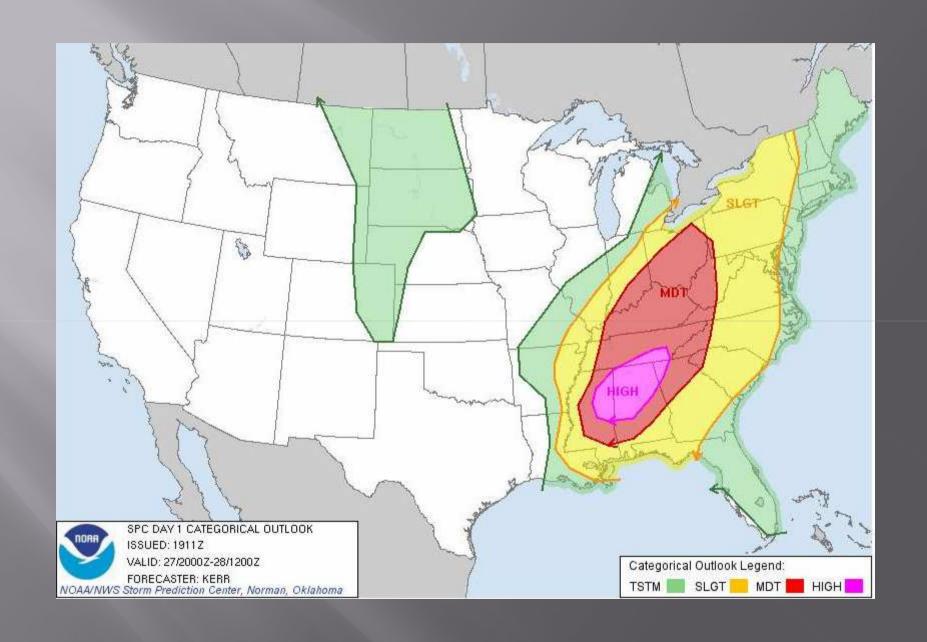


# High Risk Outlook

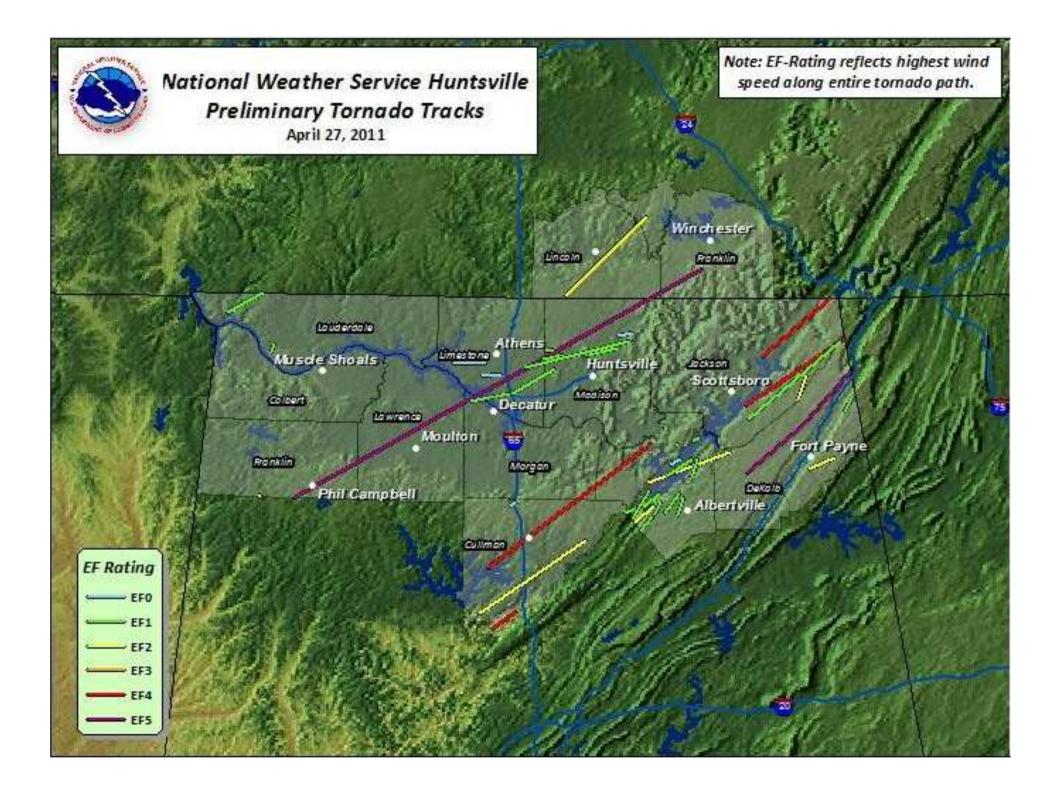
- "High Risk" (HR) convective outlooks issued by the NOAA/NWS/Storm Prediction Center (SPC) are reserved for events that only occur a few days per year
- During the period 2003 to 2009, there were 100 HR outlooks issued on a total of 29 HR days.
- A median of 5 HR days per year

Source: A Detailed Analysis of SPC "High Risk" Outlooks, 2003-2009 Jason M. Davis – Valparaiso University, Valparaiso, IN Andrew R. Dean – NOAA/NWS Storm Prediction Center, Norman, OK Jared L. Guyer – NOAA/NWS Storm Prediction Center, Norman, OK



# April 27, 2011 - Facts

- 202 tornadoes confirmed in 14 states causing
   316 fatalities with majority in Alabama
- In Alabama, 62 tornadoes struck with two of them being EF5's
- Source: Kelly Kazek, The News Courier in Athens, Alabama, September 15, 2011



# Dead Animal Disposal

- NRCS normally provides "Recovery" efforts related to natural disasters.
- However, in a "response" mode, NRCS worked closely with ADAI to locate proper burial sites for over 3 million poultry.



# "Dealing with the Aftermath"





Debris in streams can cause imminent threat to life and property.

# USDA – Emergency Watershed Protection (EWP) Program

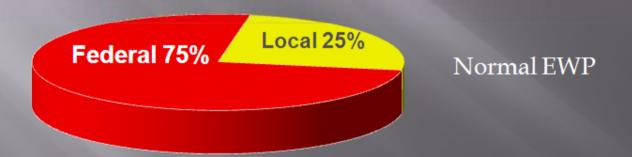
Helps local units of government recover from imminent hazards to life and property created by a natural disaster.

# Eligibility Criteria

- Damage was a result of a natural disaster?
- Recovery measures would be for runoff retardation or soil erosion prevention?
- Threat to life and/or property?
- Event caused a sudden impairment in the watershed?
- Imminent threat was created by this event?
- Economically Defensible and Technically Sound

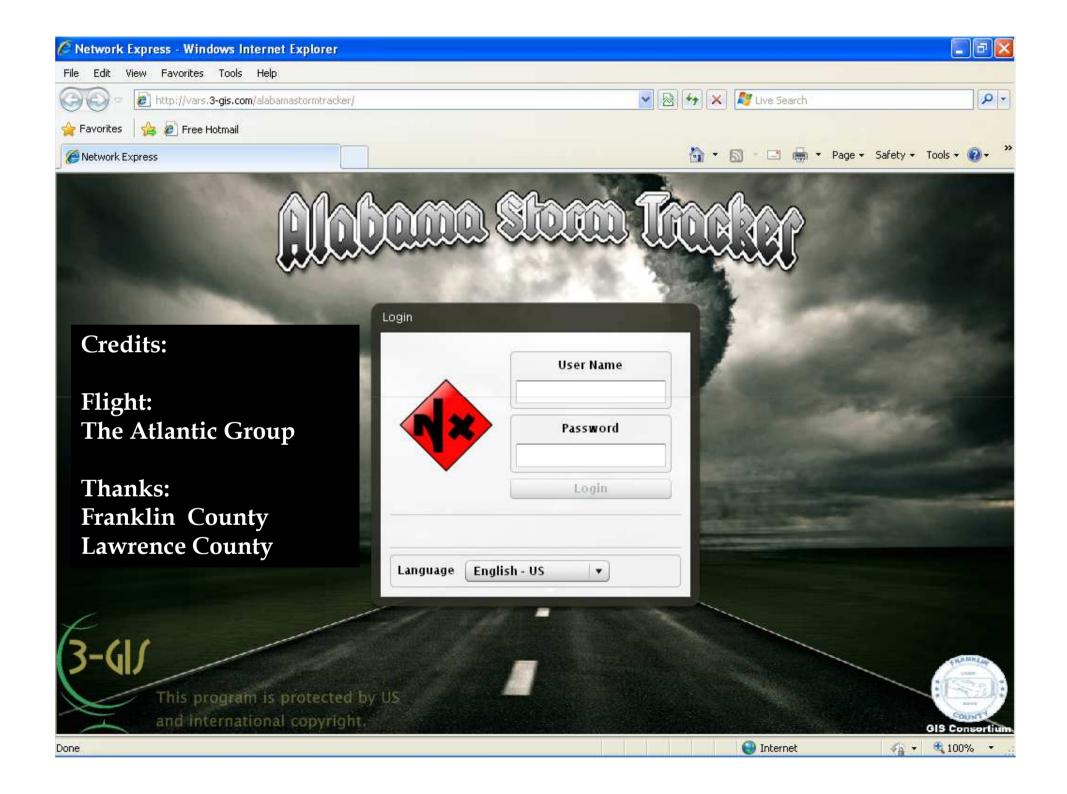
# **Emergency Watershed Protection**

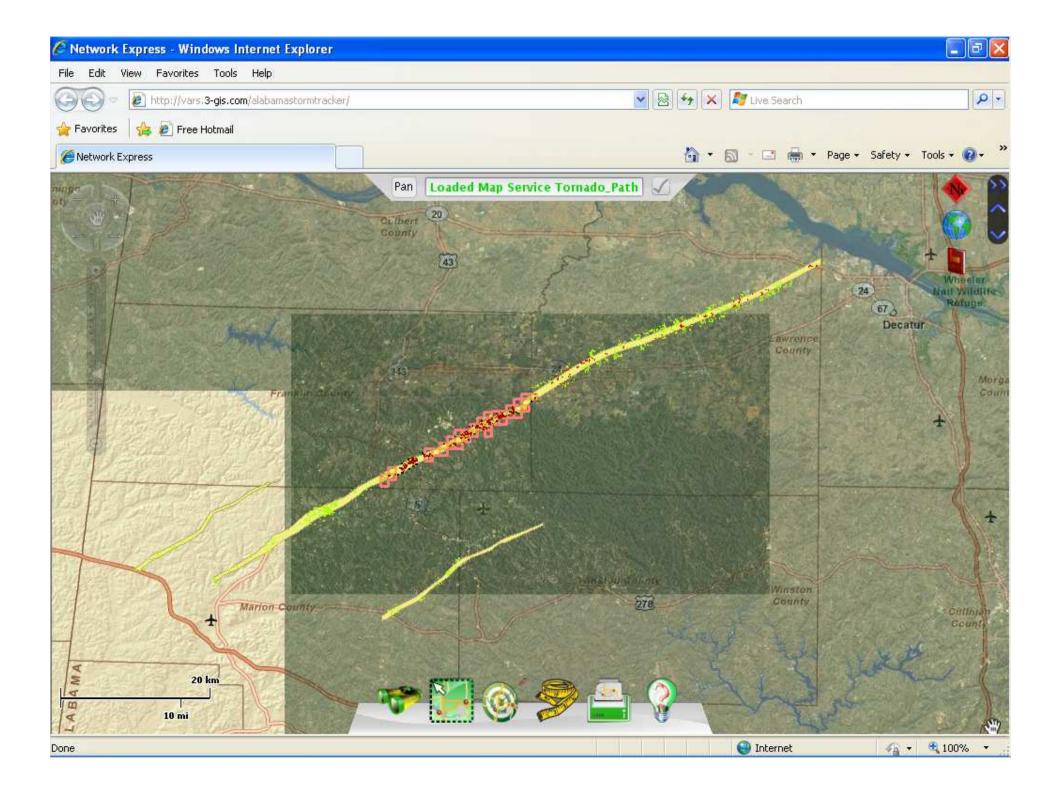
 Ability to provide local share of construction costs

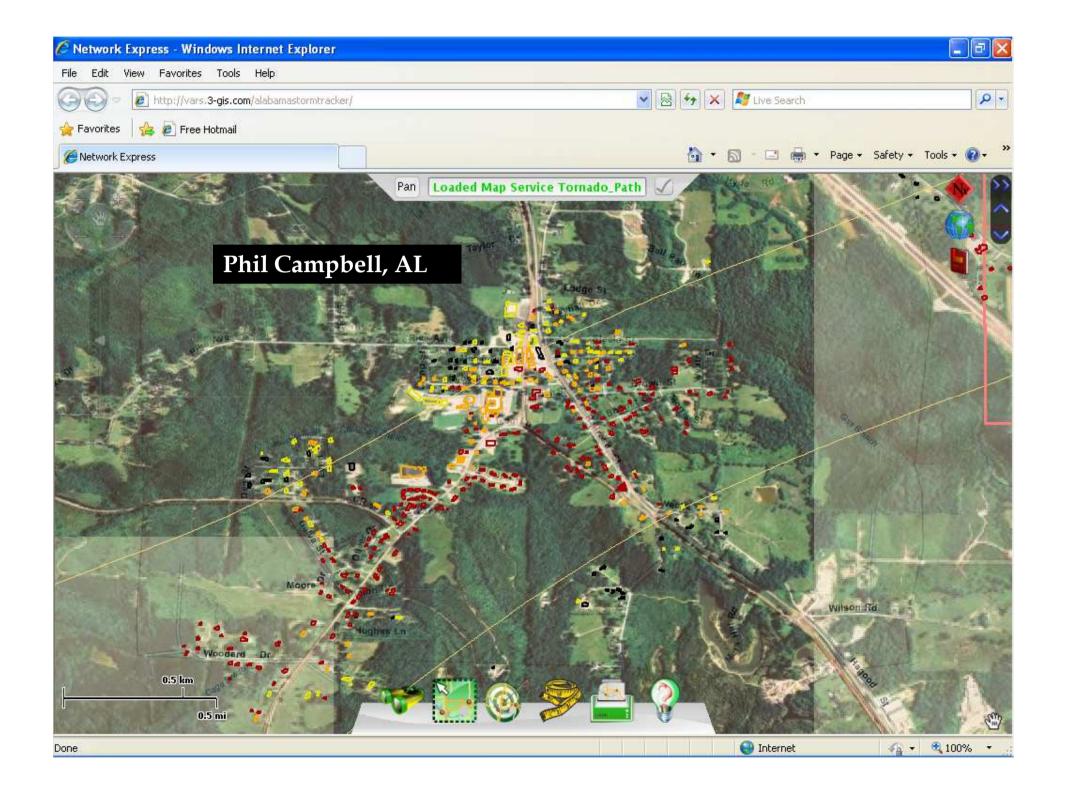


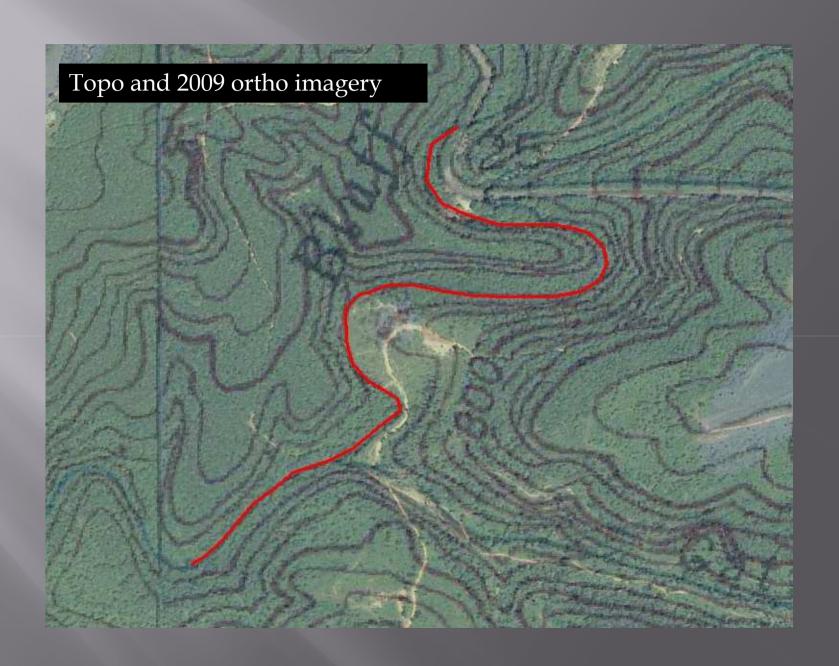
This Event





























# **EWP Sponsors**

- 25 Sponsors (Cities and Counties).
- 126 DSR's approved.
- \$7,766,469 Estimated Construction Cost.
- Some projects to be completed with sponsor work force (Force Account).
- Most projects will be contracted out by the sponsor (Contracting Local Organization).
- 220 days to complete construction.

## **EWP** Construction

- ONLY storm related debris that is blocking the stream and adjacent floodplain can be removed.
- Non-damaged and slightly damaged trees will remain.
- Stumps will be left whenever possible.
- Some woody debris left in the streams is OK.
- No equipment will be allowed to operate in the streams.
- Disposal will be by approved methods.
- Disturbed areas will be seeded and mulched.

# Environmental Quality Incentives Program (EQIP)

- Used for clearing and snagging of new storm related debris from stream channels and banks
- Federal cost share 75% of the actual costs on the bills

#### Job Sheet No. AL326 - 1



## CLEARING AND SNAGGING OF STORM DEBRIS FROM STREAMS

Alabama NRCS Job Sheet No. AL326



### Definition

The work consists of clearing and snagging new storm related debris from stream channels and stream banks.

line, written permission must be obtained from the adjoining property owner prior to clearing and snagging operations.

Method of Operation

### EQIP, 326 – Clearing and Snagging For April 2011Tornado Debris

#### Criteria:

- Limited to work on dashed or blue line streams on a topographic map, except for the very low rate that
  can be applied to work in headwater draws that are either between crop or pasture fields
- Clearing and Snagging will be for storm related debris only
- Only the stream channel and the stream banks will be cleared of storm related debris.
- Equipment with excessive oils and fluid leaks will not be allowed to do Clearing and Snagging.
- No heavy equipment will be allowed to operate within the streambed or water.
- Heavy equipment must operate from the stream bank only. If equipment is found (or there is
  evidence that it was) in the stream, the financial assistance for clearing and snagging will be
  FORFEITED. ONLY storm related debris will be removed.
- Stumps still connected to the ground by roots (even on one side) should remain with the broken tree sawed and removed, then the stumps up righted.
- Debris removal will be one or combinations of the following:
  - Stacking on the farm and out of the 100 year floodplain.
  - Burning and leftover material buried at an approved location (not in a wetland).
  - o Hauled from site to an approved location.
- All disturbed areas will be seeded and mulched using 342 Critical Area Planting.

## Clearing and Snagging Tornado Debris



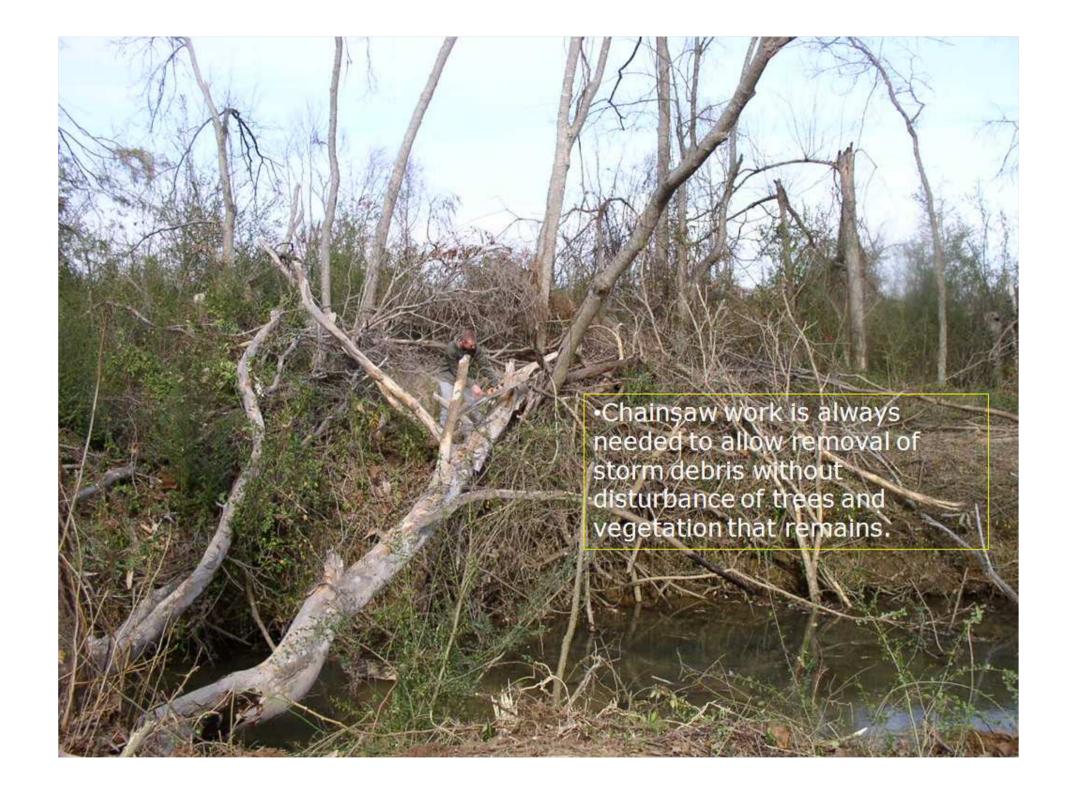
- Chainsaw work is always needed.
- •Only storm related debris removed.
- •Some woody debris left in the stream is good.
- •Trees standing should remain standing.
- •Minimal disturbance to streambank.
- •No equipment in the stream.



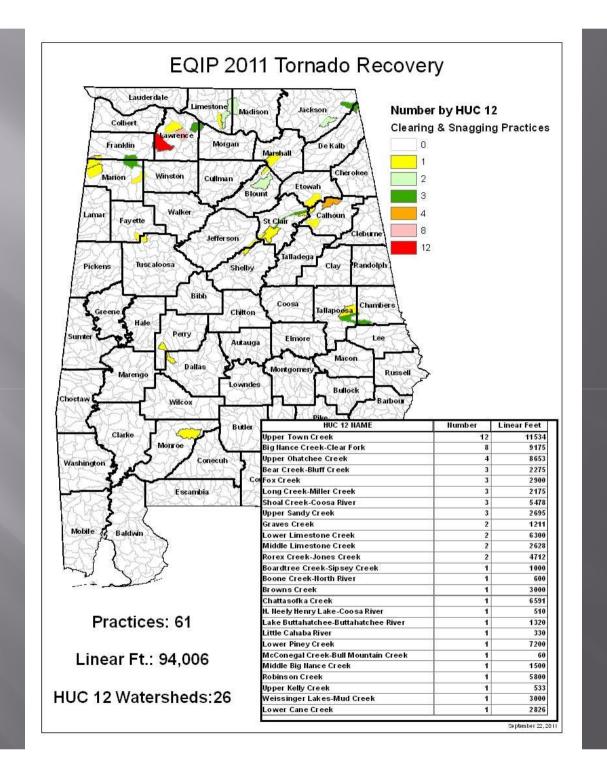












# EQIP cost-share

- Waste Storage Facility \$272,845 (obligated)
- Animal Mortality Facility \$15,125 (obligated)
- Composting Facility \$127,531 (obligated)
- □ Clearing & Snagging \$1,827,401.73 (obligated)